

Results for sample technician2014 test paper

Your answers are marked like this:

✓ **A. You got this question right, this is your correct answer.**

✗ *A. You got this question wrong, this is your incorrect answer.*

✓ *A. You got this question wrong, this is the correct answer.*

✓ **A. You didnt answer this question but this would be the correct answer.**

Subelement T0

1: T0A03

What is connected to the green wire in a three-wire electrical AC plug?

- A. Neutral
- B. Hot

✓ **C. Safety ground**

- D. The white wire

2: T0B05

What is the purpose of a gin pole?

- A. To temporarily replace guy wires
- B. To be used in place of a safety harness

✓ **C. To lift tower sections or antennas**

- D. To provide a temporary ground

3: T0C06

Which of the following is an acceptable method to determine that your station complies with FCC RF exposure regulations?

- A. By calculation based on FCC OET Bulletin 65
- B. By calculation based on computer modeling
- C. By measurement of field strength using calibrated equipment

✓ **D. All of these choices are correct**

Subelement T1

4: T1A07

What is the FCC Part 97 definition of telemetry?

- A. An information bulletin issued by the FCC
- B. A one-way transmission to initiate, modify or terminate functions of a device at a distance

✓ **C. A one-way transmission of measurements at a distance from the measuring instrument**

- D. An information bulletin from a VEC

5: T1B11

What emission modes are permitted in the mode-restricted sub-bands at 50.0 to 50.1 MHz and 144.0 to 144.1 MHz?

✓ **A. CW only**

- B. CW and RTTY
- C. SSB only
- D. CW and SSB

6: T1C11

If your license has expired and is still within the allowable grace period, may you continue to operate a transmitter on amateur service frequencies?

✓ **A. No, transmitting is not allowed until the FCC license database shows that the license has been renewed**

- B. Yes, but only if you identify using the suffix GP
- C. Yes, but only during authorized nets
- D. Yes, for up to two years

7: T1D07

What types of amateur stations can automatically retransmit the signals of other amateur stations?

- A. Auxiliary, beacon, or Earth stations

✓ **B. Auxiliary, repeater, or space stations**

- C. Beacon, repeater, or space stations
- D. Earth, repeater, or space stations

8: T1E05

What is an amateur station control point?

- A. The location of the station's transmitting antenna
- B. The location of the station transmitting apparatus

✓ **C. The location at which the control operator function is performed**

- D. The mailing address of the station licensee

9: T1F06

Which of the following formats of a self-assigned indicator is acceptable when identifying using a phone transmission?

- A. KL7CC stroke W3
- B. KL7CC slant W3
- C. KL7CC slash W3

✓ **D. All of these choices are correct**

Subelement T2

10: T2A01

What is the most common repeater frequency offset in the 2 meter band?

- A. Plus 500 kHz
- ☒ **B. Plus or minus 600 kHz**
- C. Minus 500 kHz
- D. Only plus 600 kHz

11: T2B07

What could cause your FM signal to interfere with stations on nearby frequencies?

☒ **A. Microphone gain too high, causing over-deviation**

- ☒ **B. SWR too high**
- C. Incorrect CTCSS Tone
- D. All of these choices are correct

12: T2C07

Which of the following is an accepted practice for an amateur operator who has checked into an emergency traffic net?

- A. Provided that the frequency is quiet, announce the station call sign and location every 5 minutes
- B. Move 5 kHz away from the net's frequency and use high power to ask other hams to keep clear of the net frequency
- ☒ **C. Remain on frequency without transmitting until asked to do so by the net control station**
- D. All of the choices are correct

Subelement T3

13: T3A05

When using a directional antenna, how might your station be able to access a distant repeater if buildings or obstructions are blocking the direct line of sight path?

- A. Change from vertical to horizontal polarization
- ☒ **B. Try to find a path that reflects signals to the repeater**
- C. Try the long path
- D. Increase the antenna SWR

14: T3B02

What property of a radio wave is used to describe its polarization?

- ☒ **A. The orientation of the electric field**
- B. The orientation of the magnetic field
- C. The ratio of the energy in the magnetic field to the energy in the electric field
- D. The ratio of the velocity to the wavelength

15: T3C09

What is generally the best time for long-distance 10 meter band propagation via the F layer?

- ✓ **A. From dawn to shortly after sunset during periods of high sunspot activity**
- B. From shortly after sunset to dawn during periods of high sunspot activity
- ☐ **C. From dawn to shortly after sunset during periods of low sunspot activity**
- D. From shortly after sunset to dawn during periods of low sunspot activity

Subelement T4

16: T4A08

Which type of conductor is best to use for RF grounding?

- A. Round stranded wire
- B. Round copper-clad steel wire
- C. Twisted-pair cable
- ✓ **D. Flat strap**

17: T4B03

What is the purpose of the squelch control on a transceiver?

- A. To set the highest level of volume desired
- B. To set the transmitter power level
- C. To adjust the automatic gain control
- ✓ **D. To mute receiver output noise when no signal is being received**

Subelement T5

18: T5A10

Which term describes the rate at which electrical energy is used?

- A. Resistance
- B. Current
- ✓ **C. Power**
- D. Voltage

19: T5B03

How many volts are equal to one kilovolt?

- A. One one-thousandth of a volt
- B. One hundred volts
- ✓ **C. One thousand volts**
- D. One million volts

20: T5C08

What is the formula used to calculate electrical power in a DC circuit?

- ✓ **A. Power (P) equals voltage (E) multiplied by current (I)**

- B. Power (P) equals voltage (E) divided by current (I)
- C. Power (P) equals voltage (E) minus current (I)
- D. Power (P) equals voltage (E) plus current (I)

21: T5D02

What formula is used to calculate voltage in a circuit?

- ☒ **A. Voltage (E) equals current (I) multiplied by resistance (R)**
- B. Voltage (E) equals current (I) divided by resistance (R)
- C. Voltage (E) equals current (I) added to resistance (R)
- D. Voltage (E) equals current (I) minus resistance (R)

Subelement T6

22: T6A09

What electrical component is used to protect other circuit components from current overloads?

- ☒ **A. Fuse**
- B. Capacitor
- C. Inductor
- D. All of these choices are correct

23: T6B09

What are the names of the two electrodes of a diode?

- A. Plus and minus
- B. Source and drain
- ☒ **C. Anode and cathode**
- D. Gate and base

24: T6C09

What is component 4 in figure T2?

- A. Variable inductor
- B. Double-pole switch
- C. Potentiometer
- ☒ **D. Transformer**

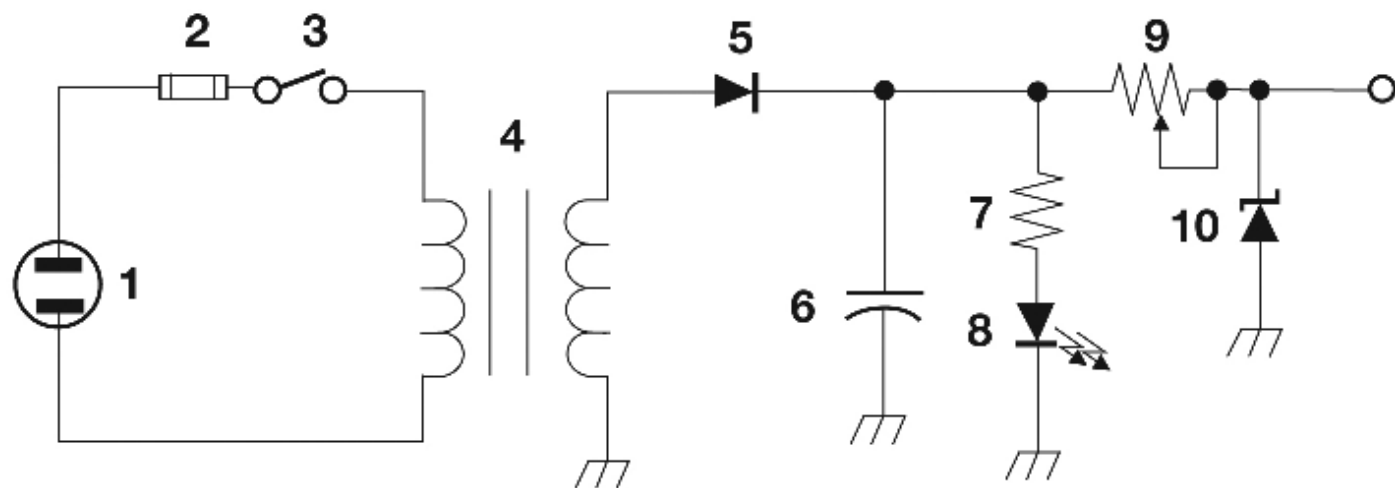


Figure T-2

25: T6D03

What type of switch is represented by component 3 in figure T2?

- ☒ **A. Single-pole single-throw**
- ☐ B. Single-pole double-throw
- ☐ C. Double-pole single-throw
- ☐ D. Double-pole double-throw

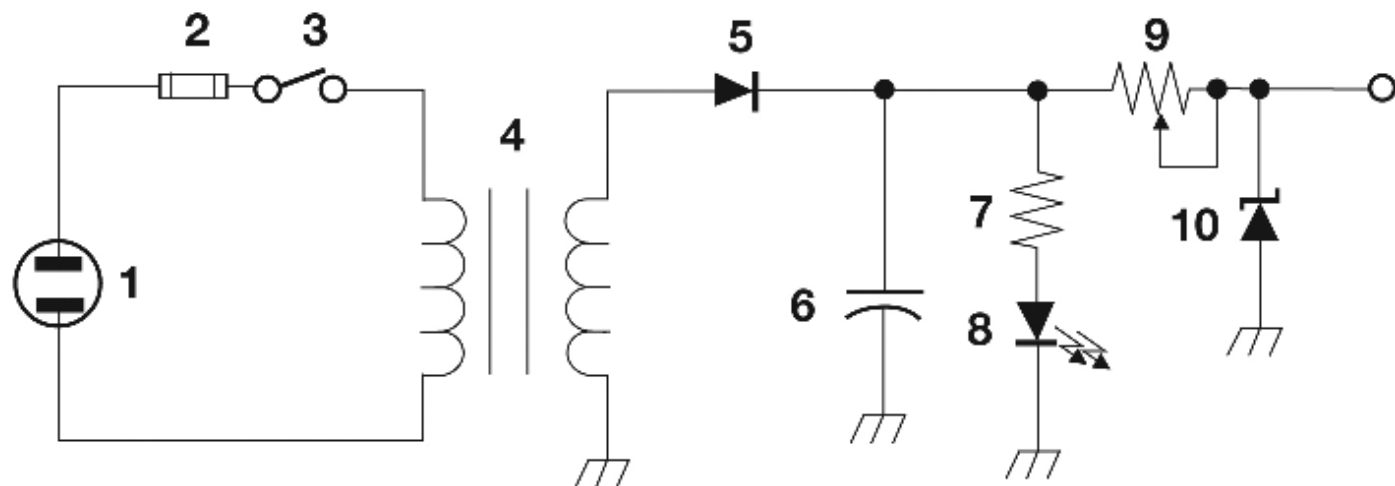


Figure T-2

Subelement T7

26: T7A10

What device increases the low-power output from a handheld transceiver?

- ☐ A. A voltage divider

☒ **B. An RF power amplifier**

- C. An impedance network
- D. All of these choices are correct

27: T7B05

How can overload of a non-amateur radio or TV receiver by an amateur signal be reduced or eliminated?

☒ **A. Block the amateur signal with a filter at the antenna input of the affected receiver**

- B. Block the interfering signal with a filter on the amateur transmitter
- C. Switch the transmitter from FM to SSB
- D. Switch the transmitter to a narrow-band mode

28: T7C03

What, in general terms, is standing wave ratio (SWR)?

☒ **A. A measure of how well a load is matched to a transmission line**

- B. The ratio of high to low impedance in a feed line
- C. The transmitter efficiency ratio
- D. An indication of the quality of your station's ground connection

29: T7D06

Which of the following might damage a multimeter?

- A. Measuring a voltage too small for the chosen scale
- B. Leaving the meter in the milliamps position overnight

☒ **C. Attempting to measure voltage when using the resistance setting**

- D. Not allowing it to warm up properly

Subelement T8

30: T8A02

What type of modulation is most commonly used for VHF packet radio transmissions?

☒ **A. FM**

- B. SSB
- C. AM
- D. Spread Spectrum

31: T8B04

Which amateur stations may make contact with an amateur station on the International Space Station using 2 meter and 70 cm band amateur radio frequencies?

- A. Only members of amateur radio clubs at NASA facilities

☒ **B. Any amateur holding a Technician or higher class license**

- C. Only the astronaut's family members who are hams
- D. You cannot talk to the ISS on amateur radio frequencies

32: T8C08

What is required in place of on-air station identification when sending signals to a radio control model using amateur frequencies?

- A. Voice identification must be transmitted every 10 minutes
- B. Morse code ID must be sent once per hour
- ☒ **C. A label indicating the licensee's name, call sign and address must be affixed to the transmitter**
- D. A flag must be affixed to the transmitter antenna with the station call sign in 1 inch high letters or larger

33: T8D03

Which of the following devices provides data to the transmitter when sending automatic position reports from a mobile amateur radio station?

- A. The vehicle speedometer
- B. A WWV receiver
- C. A connection to a broadcast FM sub-carrier receiver
- ☒ **D. A Global Positioning System receiver**

Subelement T9

34: T9A05

How would you change a dipole antenna to make it resonant on a higher frequency?

- A. Lengthen it
- B. Insert coils in series with radiating wires
- ☒ **C. Shorten it**
- D. Add capacitive loading to the ends of the radiating wires

35: T9B09

What might cause erratic changes in SWR readings?

- A. The transmitter is being modulated
- ☒ **B. A loose connection in an antenna or a feed line**
- C. The transmitter is being over-modulated
- D. Interference from other stations is distorting your signal

Results:

You scored 33 correct answers and 2 incorrect answers from a total of 35.

You would have passed the exam! Congratulations!

e)

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